

The following Listing of Claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

1. (Previously Presented) A thermosetting and active energy ray curable resin composition comprising, as active constituents,

a polymer having a (meth)acryl equivalent of 100 to 300 g/eq, a hydroxyl value of 50 to 550 mg KOH/g, an epoxy equivalent of 7000 g/eq or more, and a weight-average molecular weight of 5000 to 100000, the polymer being a reaction product of the addition of a monocarboxylic acid having an unsaturated double bond to a polymer having an epoxy group, and

a heat-curing agent that is free of compounds containing one or more isocyanate groups and includes a chelate compound.

2. (Cancelled)

3. (Currently Amended) The resin composition according to claim [[2]] 1, wherein the polymer having an epoxy group is a homopolymer of glycidyl(meth)acrylate or a co-polymer of glycidyl(meth)acrylate.

4. (Cancelled)

5. (Original) The resin composition according to claim 1, further comprising a photopolymerization initiator.

6. (Original) A transfer material comprising a protective layer formed of a heat-crosslinking reaction product of the resin composition according to claim 1 on a releasable base sheet.

7. (Original) The transfer material according to claim 6 further comprising an

image layer and an adhesive layer in this order on the protective layer.

8. (Original) A method of producing a molded article, comprising the steps of:
adhering a transfer material according to claim 6 to a surface of a molded article;
removing the releasable base sheet; and
irradiating the surface of the molded article with an active energy ray, thereby
forming a protective layer on the surface of the molded article.

9. (Original) A method of producing a molded article, comprising the steps of:
applying a transfer material according to claim 6 to the inside of a mold;
filling a cavity of the mold with a resin by injection to thereby form a molded article
and adhering the transfer material to a surface of the molded article simultaneously;
removing the releasable base sheet; and
irradiating the surface of the molded article with an active energy ray to thereby
forming a protective layer on the surface of the molded article.

10. (Cancelled)

11. (New) A thermosetting and active energy ray curable resin composition
comprising, as active constituents,
a polymer having a (meth)acryl equivalent of 100 to 300 g/eq, a hydroxyl value of 50
to 550 mg KOH/g, an epoxy equivalent of 7000 g/eq or more, and a weight-average
molecular weight of 5000 to 100000, the polymer being a reaction product of the addition of
a monocarboxylic acid having an unsaturated double bond to a polymer having an epoxy
group,
a heat-curing agent that is free of compounds containing one or more isocyanate
groups and includes a chelate compound, and
a photopolymerization initiator, such that the thermosetting and active energy ray
curable resin composition has two-step curable property provided by the heat-curing agent
with exposure to an active energy ray.

12. (New) The resin composition according to claim 11, wherein the polymer having an epoxy group is a homopolymer of glycidyl(meth)acrylate or a co-polymer of glycidyl(meth)acrylate.

13. (New) A transfer material comprising a protective layer formed of a heat-crosslinking reaction product caused by a heat-curing agent of the resin composition according to claim 11 on a releasable base sheet.

14. (New) The transfer material according to claim 13 further comprising an image layer and an adhesive layer in this order on the protective layer.

15. (New) A method of producing a molded article, comprising the steps of: adhering a transfer material according to claim 13 to a surface of a molded article; removing the releasable base sheet; and irradiating the surface of the molded article with an active energy ray, thereby forming a protective layer on the surface of the molded article.

16. (New) A method of producing a molded article, comprising the steps of: applying a transfer material according to claim 13 to the inside of a mold; filling a cavity of the mold with a resin by injection to thereby form a molded article and adhering the transfer material to a surface of the molded article simultaneously; removing the releasable base sheet; and irradiating the surface of the molded article with an active energy ray to thereby forming a protective layer on the surface of the molded article.

17. (New) The resin composition according to claim 11, wherein the two-step curable property includes a first step wherein the resin composition is semi-cured and tack-free and not completely crosslinked.